

Jia-Pei Dai

List of Publications by Year in descending order

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89
papers

2,619
citations

185998

28
h-index

223531

46
g-index

92
all docs

92
docs citations

92
times ranked

3097
citing authors

#	ARTICLE	IF	CITATIONS
1	Ventromedial Arcuate Nucleus Communicates Peripheral Metabolic Information to the Suprachiasmatic Nucleus. <i>Endocrinology</i> , 2006, 147, 283-294.	1.4	154
2	Expression of Vascular Endothelial Growth Factor Receptors 1, 2, and 3 in Quiescent Endothelia. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 767-777.	1.3	141
3	Highly Sensitive Near-Infrared Fluorophores for in Vivo Detection of Amyloid- β^2 Plaques in Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6972-6983.	2.9	110
4	Neuropeptide changes in the suprachiasmatic nucleus in primary hypertension indicate functional impairment of the biological clock. <i>Journal of Comparative Neurology</i> , 2001, 431, 320-330.	0.9	105
5	Biophotons as neural communication signals demonstrated by in situ biophoton autography. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 315-322.	1.6	100
6	Interleukin-33 ameliorates ischemic brain injury in experimental stroke through promoting Th2 response and suppressing Th17 response. <i>Brain Research</i> , 2015, 1597, 86-94.	1.1	95
7	Postmortem tracing reveals the organization of hypothalamic projections of the suprachiasmatic nucleus in the human brain. , 1998, 400, 87-102.		93
8	Distribution of vasopressin and vasoactive intestinal polypeptide (VIP) fibers in the human hypothalamus with special emphasis on suprachiasmatic nucleus efferent projections. , 1997, 383, 397-414.		78
9	Impaired axonal transport of cortical neurons in Alzheimer's disease is associated with neuropathological changes. <i>Brain Research</i> , 2002, 948, 138-144.	1.1	74
10	Human retinohypothalamic tract as revealed by in vitro postmortem tracing. <i>Journal of Comparative Neurology</i> , 1998, 397, 357-370.	0.9	73
11	Amyloid- β^2 Deposits Target Efficient Near-Infrared Fluorescent Probes: Synthesis, in Vitro Evaluation, and in Vivo Imaging. <i>Analytical Chemistry</i> , 2016, 88, 1944-1950.	3.2	66
12	Smart D- β -E-A Type Near-Infrared $A\beta^2$ Probes: Effects of a Marked β Bridge on Optical and Biological Properties. <i>Analytical Chemistry</i> , 2017, 89, 9432-9437.	3.2	64
13	Biophoton signal transmission and processing in the brain. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 139, 71-75.	1.7	61
14	Human high intelligence is involved in spectral redshift of biophotonic activities in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8753-8758.	3.3	56
15	Spatiotemporal Imaging of Glutamate-Induced Biophotonic Activities and Transmission in Neural Circuits. <i>PLoS ONE</i> , 2014, 9, e85643.	1.1	56
16	Novel Cyclopentadienyl Tricarbonyl Complexes of ^{99m}Tc Mimicking Chalcone as Potential Single-Photon Emission Computed Tomography Imaging Probes for β^2 -Amyloid Plaques in Brain. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 471-482.	2.9	54
17	Environment-Sensitive Near-Infrared Probe for Fluorescent Discrimination of $A\beta^2$ and Tau Fibrils in AD Brain. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6694-6704.	2.9	52
18	Electroacupuncture (EA) modulates the expression of NMDA receptors in primary sensory neurons in relation to hyperalgesia in rats. <i>Brain Research</i> , 2006, 1120, 46-53.	1.1	50

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19	Novel Dâ€“Aâ€“D based near-infrared probes for the detection of β^2 -amyloid and Tau fibrils in Alzheimer's disease. <i>Chemical Communications</i> , 2018, 54, 8717-8720.	2.2	50
20	Glycyrrhizin Protects Mice Against Experimental Autoimmune Encephalomyelitis by Inhibiting High-Mobility Group Box 1 (HMGB1) Expression and Neuronal HMGB1 Release. <i>Frontiers in Immunology</i> , 2018, 9, 1518.	2.2	47
21	Temporal profiles of axonal injury following impact acceleration traumatic brain injury in ratsâ€“a comparative study with diffusion tensor imaging and morphological analysis. <i>International Journal of Legal Medicine</i> , 2013, 127, 159-167.	1.2	45
22	Spontaneous and visible light-induced ultraweak photon emission from rat eyes. <i>Brain Research</i> , 2011, 1369, 1-9.	1.1	41
23	Bloodâ€“brain barrier integrity is unaltered in human brain cortex with diabetes mellitus. <i>Brain Research</i> , 2002, 954, 311-316.	1.1	39
24	Transient Focal Cerebral Ischemia/Reperfusion Induces Early and Chronic Axonal Changes in Rats: Its Importance for the Risk of Alzheimer's Disease. <i>PLoS ONE</i> , 2012, 7, e33722.	1.1	38
25	The synthesis and evaluation of near-infrared probes with barbituric acid acceptors for <i>in vivo</i> detection of amyloid plaques. <i>Chemical Communications</i> , 2015, 51, 11665-11668.	2.2	38
26	Postmortem anterograde tracing of intrahypothalamic projections of the human dorsomedial nucleus of the hypothalamus. , 1998, 401, 16-33.		37
27	Glucocorticoid hormone (cortisol) affects axonal transport in human cortex neurons but shows resistance in Alzheimer's disease. <i>British Journal of Pharmacology</i> , 2004, 143, 606-610.	2.7	37
28	Radioiodinated Benzyloxybenzene Derivatives: A Class of Flexible Ligands Target to β^2 -Amyloid Plaques in Alzheimer's Brains. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 6030-6042.	2.9	34
29	2-Phenylbenzothiazole conjugated with cyclopentadienyl tricarbonyl [CpM(CO) ₃] (M =) Tj ETQq1 1 0.784314 rgBT /Overlo Transactions, 2015, 44, 6406-6415.	1.6	34
30	The origin and development of plaques and phosphorylated tau are associated with axonopathy in Alzheimer's disease. <i>Neuroscience Bulletin</i> , 2011, 27, 287-299.	1.5	32
31	2-Arylbenzothiazoles labeled with [CpRe/ ^{99m} Tc(CO) ₃] and evaluated as β^2 -amyloid imaging probes. <i>European Journal of Medicinal Chemistry</i> , 2016, 124, 763-772.	2.6	32
32	HMGB1 expression patterns during the progression of experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2015, 280, 29-35.	1.1	30
33	Recovery of axonal transport in â€œdead neuronsâ€œ. <i>Lancet, The</i> , 1998, 351, 499-500.	6.3	29
34	Axonal and Dendritic Changes are Associated with Diabetic Encephalopathy in Rats: An Important Risk Factor for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 34, 937-947.	1.2	29
35	^{99m} Tc-labeled benzothiazole and stilbene derivatives as imaging agents for β^2 plaques in cerebral amyloid angiopathy. <i>MedChemComm</i> , 2014, 5, 153-158.	3.5	28
36	Integrative analyses of major histocompatibility complex loci in the genome-wide association studies of major depressive disorder. <i>Neuropsychopharmacology</i> , 2019, 44, 1552-1561.	2.8	27

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37	Facial pain induces the alteration of transient receptor potential vanilloid receptor 1 expression in rat trigeminal ganglion. <i>Neuroscience Bulletin</i> , 2007, 23, 92-100.	1.5	25
38	^{99m} Tc(CO) ₃ -Labeled Benzothiazole Derivatives Preferentially Bind Cerebrovascular Amyloid: Potential Use as Imaging Agents for Cerebral Amyloid Angiopathy. <i>Molecular Pharmaceutics</i> , 2015, 12, 2937-2946.	2.3	25
39	The depression GWAS risk allele predicts smaller cerebellar gray matter volume and reduced SIRT1 mRNA expression in Chinese population. <i>Translational Psychiatry</i> , 2019, 9, 333.	2.4	25
40	^{99m} Tc-Labeled 2-Arylbenzothiazoles: \hat{A}^2 Imaging Probes with Favorable Brain Pharmacokinetics for Single-Photon Emission Computed Tomography. <i>Bioconjugate Chemistry</i> , 2016, 27, 2493-2504.	1.8	24
41	Characterization of three types of ATP-activated current in relation to P2X subunits in rat trigeminal ganglion neurons. <i>Brain Research</i> , 2006, 1115, 9-15.	1.1	23
42	Structure-Property Relationships of Polyethylene Glycol Modified Fluorophore as Near-Infrared \hat{A}^2 Imaging Probes. <i>Analytical Chemistry</i> , 2018, 90, 8576-8582.	3.2	22
43	Effects of tanshinone on neuropathological changes induced by amyloid beta-peptide(1-40) injection in rat hippocampus. <i>Acta Pharmacologica Sinica</i> , 2004, 25, 861-8.	2.8	22
44	Replicated associations of FADS1, MAD1L1, and a rare variant at 10q26.13 with bipolar disorder in Chinese population. <i>Translational Psychiatry</i> , 2018, 8, 270.	2.4	21
45	<i>Cortex phellodendri</i> Extract Relaxes Airway Smooth Muscle. <i>Evidence-based Complementary and Alternative Medicine</i> , 2016, 2016, 1-9.	0.5	18
46	Electroacupuncture modulates cortical activities evoked by noxious somatosensory stimulations in human. <i>Brain Research</i> , 2006, 1097, 90-100.	1.1	17
47	<i>Polygonum aviculare</i> L. extract and quercetin attenuate contraction in airway smooth muscle. <i>Scientific Reports</i> , 2018, 8, 3114.	1.6	17
48	<i>N,O</i> -Benzamide difluoroboron complexes as near-infrared probes for the detection of \hat{A}^2 -amyloid and tau fibrils. <i>Chemical Communications</i> , 2020, 56, 7269-7272.	2.2	16
49	Synthesis and Evaluation of Fluorine-18 Labeled 2-Phenylquinoxaline Derivatives as Potential Tau Imaging Agents. <i>Molecular Pharmaceutics</i> , 2021, 18, 1176-1195.	2.3	16
50	Preliminary Characterization and In Vivo Studies of Structurally Identical ¹⁸ F- and ¹²⁵ I-Labeled Benzyloxybenzenes for PET/SPECT Imaging of \hat{A}^2 -Amyloid Plaques. <i>Scientific Reports</i> , 2015, 5, 12084.	1.6	14
51	In vivo near-infrared and Cerenkov luminescence imaging of amyloid- \hat{A}^2 deposits in the brain: a fluorinated small molecule used for dual-modality imaging. <i>Chemical Communications</i> , 2016, 52, 12745-12748.	2.2	14
52	Biophotonic Activity and Transmission Mediated by Mutual Actions of Neurotransmitters are Involved in the Origin and Altered States of Consciousness. <i>Neuroscience Bulletin</i> , 2018, 34, 534-538.	1.5	14
53	Oligoethyleneoxy-Modified ^{99m} Tc-Labeled \hat{A}^2 -Amyloid Imaging Probes with Improved Brain Pharmacokinetics for Single-Photon Emission Computed Tomography. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1330-1339.	2.9	14
54	Synthesis and Monkey-PET Study of (<i>R</i>)- and (<i>S</i>)- ¹⁸ F-Labeled 2-Arylbenzoheterocyclic Derivatives as Amyloid Probes with Distinctive <i>In Vivo</i> Kinetics. <i>Molecular Pharmaceutics</i> , 2016, 13, 3852-3863.	2.3	13

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55	Near-Infrared Fluorescent Probes with Rotatable Polyacetylene Chains for the Detection of Amyloid- β^2 Plaques. <i>Journal of Physical Chemistry B</i> , 2021, 125, 497-506.	1.2	11
56	Novel ^{18}F -labeled dibenzylideneacetone derivatives as potential positron emission tomography probes for in vivo imaging of β^2 -amyloid plaques. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 628-638.	2.6	9
57	Preliminary evaluation of fluoro-pegylated benzyloxybenzenes for quantification of β^2 -amyloid plaques by positron emission tomography. <i>European Journal of Medicinal Chemistry</i> , 2015, 104, 86-96.	2.6	9
58	Azithromycin inhibits muscarinic 2 receptor-activated and voltage-activated Ca^{2+} permeant ion channels and Ca^{2+} sensitization, relaxing airway smooth muscle contraction. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2019, 46, 329-336.	0.9	9
59	Actions of bis(7)-tacrine and tacrine on transient potassium current in rat DRG neurons and potassium current mediated by KV4.2 expressed in <i>Xenopus</i> oocyte. <i>Brain Research</i> , 2010, 1318, 23-32.	1.1	8
60	Biophotons Contribute to Retinal Dark Noise. <i>Neuroscience Bulletin</i> , 2016, 32, 246-252.	1.5	8
61	^{18}F -NODA Benzothiazole Derivatives as Imaging Agents for Cerebrovascular Amyloid in Cerebral Amyloid Angiopathy. <i>ACS Omega</i> , 2018, 3, 13089-13096.	1.6	8
62	Picture representation during REM dreams: A redox molecular hypothesis. <i>BioSystems</i> , 2010, 100, 79-86.	0.9	7
63	Semen <i>cassiae</i> Extract Inhibits Contraction of Airway Smooth Muscle. <i>Frontiers in Pharmacology</i> , 2018, 9, 1389.	1.6	7
64	Psychiatric genetics in China: achievements and challenges. <i>Molecular Psychiatry</i> , 2016, 21, 4-9.	4.1	6
65	(R)- and (S)- ^{18}F -labeled 2-arylbenzofurans with improved pharmacokinetics as β^2 -amyloid imaging probes. <i>European Journal of Medicinal Chemistry</i> , 2017, 134, 271-280.	2.6	6
66	Quantum energy levels of glutamate modulate neural biophotonic signals. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 343-356.	1.6	6
67	Synthesis and bioevaluation of technetium- $^{99\text{m}}$ / rhenium labeled phenylquinoxaline derivatives as Tau imaging probes. <i>European Journal of Medicinal Chemistry</i> , 2019, 177, 291-301.	2.6	5
68	Spectral blueshift of biophotonic activity and transmission in the ageing mouse brain. <i>Brain Research</i> , 2020, 1749, 147133.	1.1	5
69	Age-related intraneuronal accumulation of β^2 -spectrin breakdown product SBDP120 in the human cerebrum is enhanced in Alzheimer's disease. <i>Experimental Gerontology</i> , 2015, 69, 43-52.	1.2	4
70	Optically Pure Diphenoxy Derivatives as More Flexible Probes for β^2 -Amyloid Plaques. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1275-1282.	1.7	4
71	Radiolabeled pyridinyl analogues of dibenzylideneacetone as β^2 -amyloid imaging probes. <i>RSC Advances</i> , 2016, 6, 44646-44654.	1.7	4
72	NS8593 inhibits Ca^{2+} permeant channels reversing mouse airway smooth muscle contraction. <i>Life Sciences</i> , 2019, 238, 116953.	2.0	4

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73	Paracetamol inhibits Ca ²⁺ permeant ion channels and Ca ²⁺ sensitization resulting in relaxation of precontracted airway smooth muscle. <i>Journal of Pharmacological Sciences</i> , 2020, 142, 60-68.	1.1	4
74	Discovery of Diphenoxy Derivatives with Flexible Linkers as Ligands for β ² -Amyloid Plaques. <i>Molecular Pharmaceutics</i> , 2020, 17, 4089-4100.	2.3	3
75	Folium Sennae and emodin reverse airway smooth muscle contraction. <i>Cell Biology International</i> , 2020, 44, 1870-1880.	1.4	3
76	Circadian Organization of the Autonomic Nervous System. , 2000, , 117-157.		2
77	Axonopathy Likely Initiates Neuropathological Processes Via a Mechanism of Axonal Leakage in Alzheimer's Mouse Models. <i>Current Molecular Medicine</i> , 2019, 19, 183-195.	0.6	2
78	"universe collapse model" and its roles in the unification of four fundamental forces and the origin and the evolution of the universe. <i>Natural Science</i> , 2012, 04, 199-203.	0.2	2
79	The Characteristics of Biophotonic Activity Induced by Aspartate May Be Related to the Evolution of Species. <i>Natural Science</i> , 2019, 11, 197-203.	0.2	1
80	Biophoton imaging identification of delayed functional neural circuit injury after cerebral ischemia-reperfusion. <i>Journal of Neuroscience Methods</i> , 2022, 367, 109438.	1.3	1
81	Severe tauopathy and axonopathy in the medulla oblongata in Alzheimer's disease implicate the changes in autonomic nervous function. <i>Journal of Chemical Neuroanatomy</i> , 2022, 123, 102105.	1.0	1
82	Biophoton Radiations Induced by Hydrogen Peroxide in Mouse Liver Slices and Hepatocyte Nuclei in Relation to the Biophysical Action Mechanism of Reactive Oxygen Species. <i>Natural Science</i> , 2022, 14, 217-225.	0.2	1
83	Detection of the Refined Recycled Edible Oil Based on an Ultra-Weak Luminescence Imaging Technique. , 2012, , .		0
84	Reply to Salari et al.: Toward understanding the deep mechanisms regarding the biophotons related to human intelligence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5542-E5543.	3.3	0
85	Aspartate-induced biophotonic activities in mice brain slices. , 2016, , .		0
86	Biophoton Imaging Evaluation of the Process of Rheumatoid Arthritis in Rats. <i>Natural Science</i> , 2021, 13, 451-456.	0.2	0
87	<i>In Vivo </i> Imaging of Biophoton Emission in the Whole Brain of Mice. <i>Natural Science</i> , 2021, 13, 407-411.	0.2	0
88	Macroscopic anisotropic Brownian motion is related to the directional movement of a "Universe field". <i>Natural Science</i> , 2014, 06, 54-58.	0.2	0
89	The comparisons on total RNA from different source-original neurons applied in LMPC. <i>Neuroscience Bulletin</i> , 2006, 22, 91-6.	1.5	0